KTL Test Report:	1R03473.1
Applicant:	Angelcare Monitors Inc. 550 Chemin Du Golf Suite 200 Nuns Island, Quebec H3E 1A8
Equipment Under Test: (E.U.T.)	AC200, AC200R, AC201 & AC201R
FCC ID:	N7TAC201TX
In Accordance With:	FCC Part 15, Subpart C, Paragraph 15.235
Tested By:	KTL Ottawa Inc. 3325 River Road, R.R. 5 Ottawa, Ontario K1V 1H2
Authorized By:	
	G. Westwell, Technologist
Date:	
Total Number of Pages:	19

KTL Ottawa

FCC PART 15, SUBPART C PARAGRAPH 15.235 PROJECT NO.: 1R03473.1

EQUIPMENT: AC200, AC200R, AC201 & AC201R FCC ID: N7TAC201TX

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EQUIPMENT: AC200, AC200R, AC201 & AC201R

FCC ID: N7TAC201TX

Section 1. Summary Of Test Results

General

All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15, Subpart C for low power devices. All tests were conducted using measurement procedure ANSI C63.4-1992. Radiated Emissions were made on an open area test site.

\sum	New Submission		Production Unit
	Class II Permissive Change		Pre-Production Unit
D X X	Equipment Code		
	THIS TEST REPORT RELATES ONLY TO	THE I'	TEM(S) TESTED.
THE FOLL	OWING DEVIATIONS FROM, ADDITIONS TEST SPECIFICATIONS HAVE See "Summary of Test I	BEEN I	
	NVLAP		
	NVLAP LAB CODE: 10	00351-0	
TESTED BY	•	DA	ATE:

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Russell Grant, Wireless Group Manager

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This report applies only to the items tested.

EQUIPMENT: AC200, AC200R, AC201 & AC201R

FCC ID: N7TAC201TX

Summary Of Test Data

Name Of Test	Para. No.	Result
Powerline Conducted Emissions	15.207	Complies
Radiated Emissions	15.235	Complies

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EQUIPMENT: AC200, AC200R, AC201 & AC201R

FCC ID: N7TAC201TX

Section 2. General Equipment Specification

Manufacturer: Angelcare Monitors Inc.

Date Received In Laboratory: January 16, 2001

KTL Identification No.: Items # 3, 6 & 9

Frequency Range: 49.83 – 49.89MHz

Operating Frequency(ies) of

Sample:

49.83, 49.89MHz

Modulation: FM

Emission Designator: 9K00F3E

Primary Power: 120 VAC/Batteries

Integral Antenna Yes No

 \boxtimes

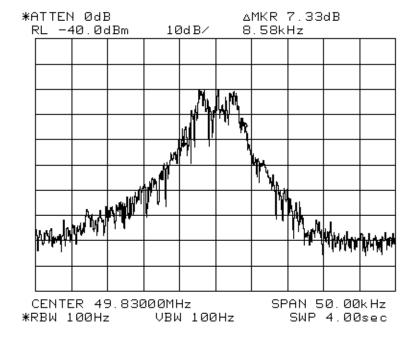
Model No.: AC200 – Sound Only

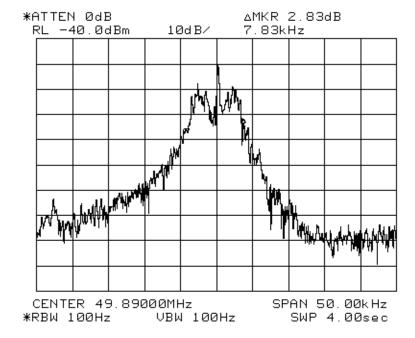
AC200R – Sound Only And Rechargeable Batteries

AC201 – Sound And Motion

AC201R – Sound And Motion And Rechargeable Batteries

All models used identical transmitter circuits. Tests were conducted on Models AC200 and AC201R.





EQUIPMENT: AC200, AC200R, AC201 & AC201R

FCC ID: N7TAC201TX

Powerline Conducted Emissions Section 3.

Para. No.: 15.207

Test Performed By: Russell Grant Date of Test: January 17, 2001

Minimum Standard:

Frequency	Maximum Powerline Conducted RF Voltage				
(MHz)	(μV) $(dB\mu V)$				
0.45 - 30.0	250	48			

Test Results: Complies. See attached graph(s).

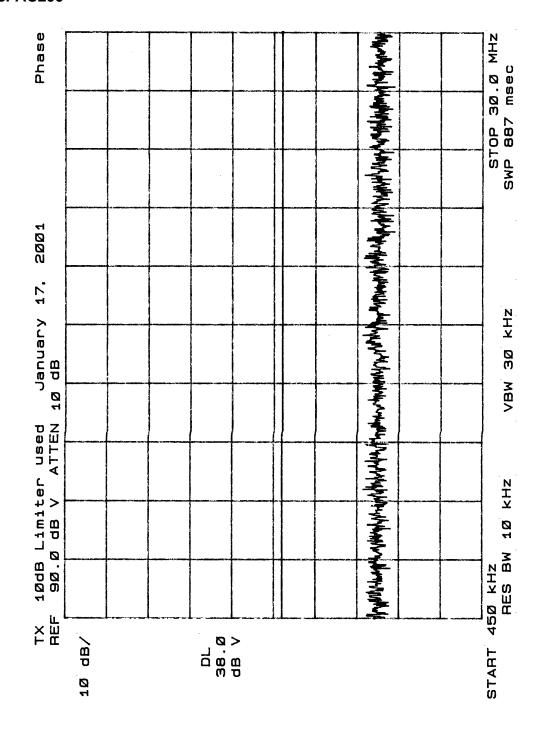
Measurement Data: See attached graph(s).

Method of Measurement: (**Procedure ANSI C63.4-1992**)

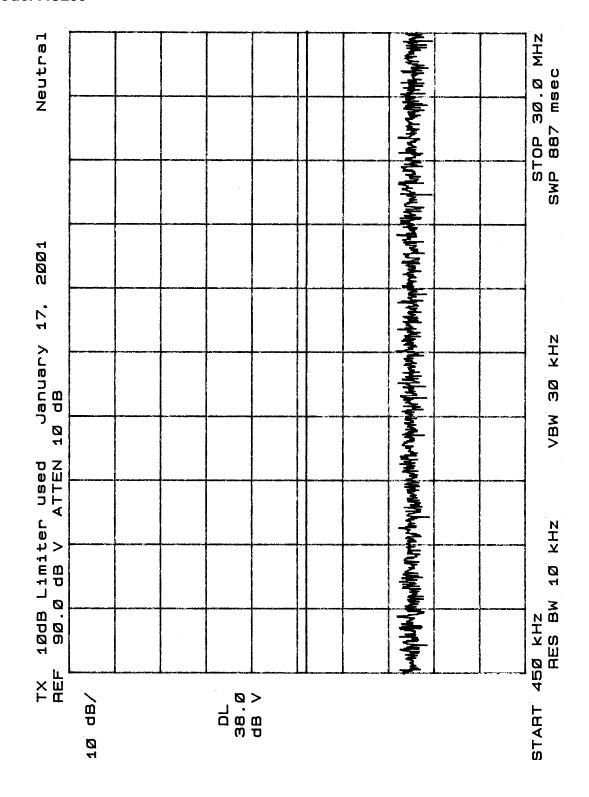
> Measurements were made using a spectrum analyzer with 10 kHz RBW, Peak Detector. Any emissions that are close to the limit are measured using a test receiver with 10 kHz bandwidth, CISPR

Quasi-Peak Detector.

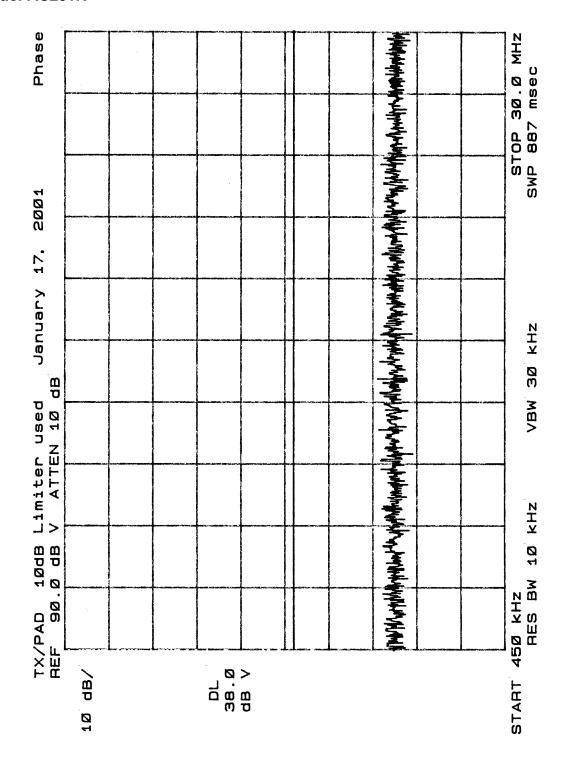
Model AC200



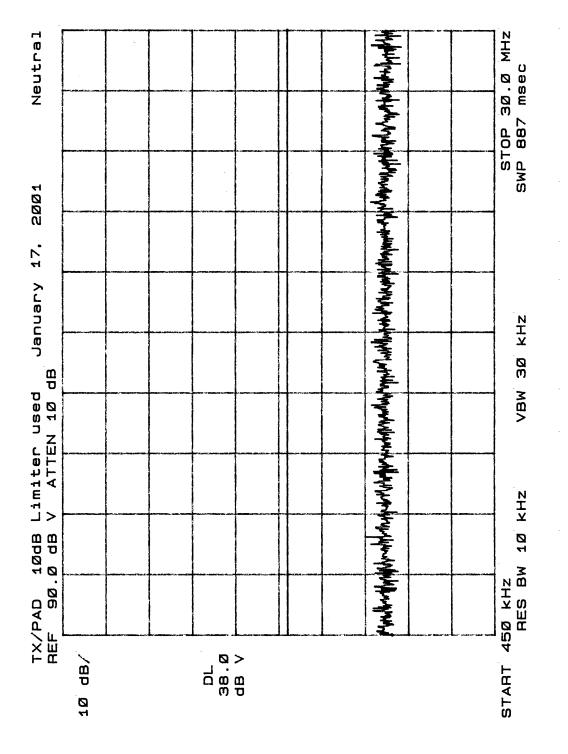
Model AC200



Model AC201R



Model AC201R

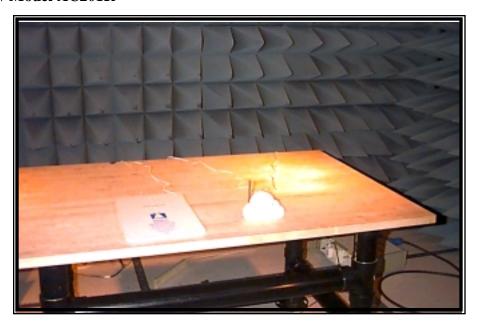


Conducted Photographs (Worst Case Configuration)

Front View Model AC200



Front View Model AC201R



EQUIPMENT: AC200, AC200R, AC201 & AC201R

FCC ID: N7TAC201TX

Section 4. Radiated Emissions

Para. No.: 15.209

Test Performed By: Russell Grant **Date of Test:** January 17, 2001

Minimum Standard:

The field strength of emissions from the device shall not exceed the following limits.

Fundamental (MHz)	Field Strength (µV/m)	Field Strength (dBµV)
49.82-49.90	10000	80
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

Test Results: Complies. The worst-case emission level is 75.4 dBµV/m @ 3m at

49.83 MHz. This is 4.6 dB below the specification limit.

Measurement Data: (Procedure ANSI C63.4-1992)

The spectrum was searched 30 to 1000MHz from and all emissions greater than $20\mu V/m$ @ 3m were measured and reported.

EQUIPMENT: AC200, AC200R, AC201 & AC201R

FCC ID: N7TAC201TX

Test Data - Radiated Emissions: AC200 - Sound Only

Test Dis (meters			ange: Fower	Recei ESV			(kHz): 20		ctor: ak
Freq. (MHz)	Ant. *	Pol. (V/H)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
49.83	B/C1	V	64.2	11.2			75.4	80.0	4.6*
49.83	B/C1	Н	52.0	11.2			63.2	80.0	16.8
33.22	B/C1	V	9.2	13.4			22.6	40.0	17.4
33.22	B/C1	Н	1.2	13.4			14.6	40.0	25.4

Notes:

B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole

* Re-measured using dipole antenna.

** Includes cable loss when amplifier is not used.

*** Includes cable loss.

() Denotes failing emission level.

N.D. = Not Detected

Test Data - Radiated Emissions: AC201R – Sound And Motion And Rechargeable Batteries

Test Dis (meters			ange: Fower	Recei ESV			(kHz): 20		ctor: ak
Freq. (MHz)	Ant. *	Pol. (V/H)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
49.83	B/C1	V	58.2	11.2			69.4	80.0	10.6
49.83	B/C1	Н	48.8	11.2			60.0	80.0	20.0
33.22	B/C1	V	7.3	13.4			20.7	40.0	19.3
33.22	B/C1	Н	0.0	13.4			13.4	40.0	26.6
66.44	B/C1	V	4.9	9.2			14.1	40.0	25.9
66.44	B/C1	Н	5.0	9.2			14.2	40.0	25.8

Notes:

B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole

* Re-measured using dipole antenna.

** Includes cable loss when amplifier is not used.

*** Includes cable loss.

() Denotes failing emission level.

N.D. = Not Detected

Radiated Photographs (Worst Case Configuration)

Front View Model AC200



Front View Model AC201R



EQUIPMENT: AC200, AC200R, AC201 & AC201R

FCC ID: N7TAC201TX

Section 5. Test Equipment List

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.
1 Year	Spectrum Analyzer	Hewlett Packard	8565E	FA000981	June 16/00	June 16/01
1 Year	Spectrum Analyzer-1	Hewlett Packard	8566B	2311A02238	Dec. 10/00	Dec. 10/01
1 Year	Spectrum Analyzer Display-1	Hewlett Packard	8566B	2314A04759	Dec. 10/00	Dec. 10/01
1 Year	LISN	EMCO	4825/2	0002-1/47	Feb. 14/00	Feb. 14/01
1 Year	Biconical (1) Antenna	EMCO	3109	9204-2708	Aug. 10/00	Aug. 10/01

NA: Not Applicable NCR: No Cal Required COU: CAL On Use

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FCC PART 15, SUBPART C PARAGRAPH 15.235 PROJECT NO.: 1R03473.1 ANNEX A

EQUIPMENT: AC200, AC200R, AC201 & AC201R

FCC ID: N7TAC201TX

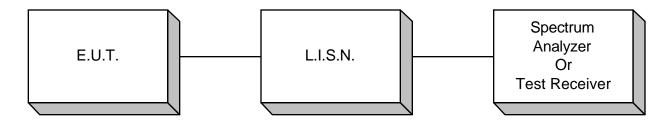
Annex A

Test Diagrams

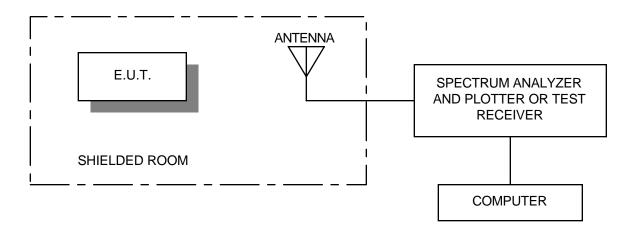
EQUIPMENT: AC200, AC200R, AC201 & AC201R

FCC ID: N7TAC201TX

Conducted Emissions



Radiated Prescan



Test Site For Radiated Emissions

